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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,998	03/30/2006	Claus Frohberg	65084.000017	9251
	7590 10/31/200 VILLIAMS LLP	EXAMINER		
	AL PROPERTY DEPA	PAGE, BRENT T		
1900 K STREE SUITE 1200	21, IN. W.	ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20006-1109	1638		
		•	MAIL DATE	DELIVERY MODE
			10/31/2007	PAPER .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Арр	Application No. Applicant(s)					
		10/5	573,998	FROHBERG, CL	FROHBERG, CLAUS			
Office Action Summary			niner	Art Unit				
			t Page	1638				
Period fo	 The MAILING DATE of this communit Reply 	cation appears o	on the cover sheet	with the correspondence ac	ddress			
WHIC - Exten after 5 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE M. sions of time may be available under the provisions of time may be available under the provisions of time for the mailing date of this comm period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE C of 37 CFR 1.136(a). Ir unication. ututory period will apply will, by statute, cause t	OF THIS COMMUI in no event, however, may and will expire SIX (6) M the application to become	NICATION. The a reply be timely filed SOUTHS from the mailing date of this of the ABANDONED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) file	d on <i>30 March 2</i>	2006.					
·		2b)⊠ This action						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-30,32 and 33</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.							
6)□	6) Claim(s) is/are rejected.							
	Claim(s) is/are objected to.							
8)⊠	Claim(s) <u>1-30,32 and 33</u> are subject	to restriction an	d/or election requ	irement.				
Applicati	on Papers							
9) 🗌 -	The specification is objected to by the	e Examiner.						
10) 🔲 -	The drawing(s) filed on is/are:	a) accepted	or b)☐ objected	to by the Examiner.				
	Applicant may not request that any object							
	Replacement drawing sheet(s) including		•					
11)	The oath or declaration is objected to	by the Examine	er. Note the attach	ned Office Action or form P	TO-152.			
Priority u	nder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
,-	1. Certified copies of the priority	documents have	e been received.		·			
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internatio	·						
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment	(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) Other:								

Application/Control Number: 10/573,998

Art Unit: 1638

particular).

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-23, drawn to a genetically modified plant cell.

Group II, claim(s) 24-25, drawn to an isolated protein.

Group III, claim(s) 26-30, drawn to "obtainable" starch.

The inventions are independent or distinct, each from the other because:

The above groupings share the technical feature of a class 3 branching enzyme.

However, this feature is not special because it does not constitute and advance over the prior art. Poulson et al (WO0170942) disclose a transgenic plant transformed with antisense constructs from starch branching enzyme I (a class 3 branching enzyme as defined in the specification of the current application) from potato (see Example I in

Addtionally, each invention has features not required by the others.

For example, Group I does not require the protein of Group II, nor the resultant starch required by Group III. Group II does not require the plant transformation materials and methods required by Group I as the protein can be synthesized in vitro or by other

expression systems, nor does Group II require the resultant starch required by Group III. Group III requires neither the plant transformation steps, nor the protein of Groups I and II respectively as the starch may also be obtained from other plant sources and other combinations of genes that would give the same starch profile. It is well known in the art that other combinations may alter amylose to amylopectin ratios and therefore arrive at the starch of Group III through other means.

For the reasons given above, restriction is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Application/Control Number: 10/573,998

Art Unit: 1638

,998 Page 4

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent Page whose telephone number is (571)-272-5914. The examiner can normally be reached on Monday-Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571)-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brent T Page

PRIMARY EXAMINER